

COAL INDIA LIMITED

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कोल इंडिया लिमिटेड

(एक महारत्न कंपनी)

सामग्री प्रबंधन विभाग

कोल भवन, प्लॉट सं. - ए. एफ-३, एक्शन एरिया-१ए

न्यू टाउन, राजरहाट, कोलकाता - ७००१५६

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संक्र० CIL/C2D/PM2020/SOP/564

दिनांक- 18.10.2023

कार्यालय आदेश**विषय: SOP for identification and procurement of Critical Spares**

In order to bring uniformity in the procedure followed by all Subsidiaries, CIL has formulated a Standard Operating Procedure for identification and procurement of Critical Spares of HEMM, which are to be procured as per Clause-15.1 of Purchase Manual.

The said SOP is issued with competent approval for information and compliance.

Encl.: As above


18/10/23

(प्रतुल देव शर्मा)

कार्यकारी निदेशक (सामग्री एवं अनुबंध)

वितरण:

१. निदेशक (तकनीकी) / निदेशक (वित्त) / निदेशक (विपणन) / निदेशक (कार्मिक) / निदेशक (बीडी), सीआईएल
२. अ प्र नि, बीसीसीएल/सीसीएल/सीएमपीडीआई/ईसीएल/एमसीएल/एनसीएल/एसईसीएल/डब्ल्यूसीएल
३. निदेशक (तकनीकी) - पी&पी/सं, बीसीसीएल/सीसीएल/ईसीएल/एमसीएल/एनसीएल/एसईसीएल/डब्ल्यूसीएल
४. मुख्य सतर्कता अधिकारी, सीआईएल
५. कार्यकारी निदेशक (समन्वय) / (सुरक्षा एवं बचाव) / (उत्पादन) / (आईसीटी) / (पर्यावरण) / (वित्त) / (सोलार) / (ईई) / (भूमि), सीआईएल
६. निदेशक (तकनीकी) के तकनीकी सचिव, सीआईएल
७. महाप्रबंधक, नार्थ ईस्टर्न कोलफील्ड्स
८. महाप्रबंधक (ईईडी) / महाप्रबंधक (ई&एम) / महाप्रबंधक (वित्त), सीआईएल
९. महाप्रबंधक (सा/प्र) / (वित्त) / (उत्खनन) / (ई&एम), बीसीसीएल/सीसीएल/ईसीएल/एमसीएल/एनसीएल/एसईसीएल/डब्ल्यूसीएल
१०. सा प्र विभाग, सी.आई.एल के सभी अधिकारीगण



भारत 2023 INDIA
संयुक्त राष्ट्र
ONE EARTH - ONE FAMILY - ONE FUTURE

Standard Operating Procedure for identification and procurement of 'Critical Spares' of HEMM

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The following Standard Operating Procedure (SOP) has been formulated by CIL, and is issued with Competent Approval:

1. Based on maximum population of a model in a subsidiary, lead Subsidiary Companies have to be identified for a particular model of HEMM by CIL. The Lead Companies based on the present population of HEMM have been identified, the details of which are given in **Annexure-A**.
2. For each model of equipment, the corresponding Lead Company as listed in Annexure-A will be responsible for recommending the Critical Spares List. The CFDs of the Lead Company shall be the approving authority for the 'Critical Spares List' as per Clause-15.1 of CIL's Purchase Manual.
3. The Subsidiary Companies must use rationality and past experience while identifying "Critical" parts, to ensure benefits in the long run to CIL. The method for identifying "Critical" parts should be fair and objective.
4. The identification and recommendation of the Critical Spares shall be made with Part Number for each Model.
5. All lead Subsidiaries should prepare the Critical Spares List in a standardized format as given below:

| Sl. No. | Model of HEMM | Description of Parts | Part No. | Alternate Part No., if any | SAP Code | Name of OEM / OES / OPM |
|---------|---------------|----------------------|----------|----------------------------|----------|-------------------------|
|         |               |                      |          |                            |          |                         |
|         |               |                      |          |                            |          |                         |

6. Care should be taken to avoid repetition of the Assemblies / Sub-Assemblies / Components listed for procurement from OPM as per Clause-15.3.2 of Purchase Manual, in the Critical Spares List.
7. A generic group of items should not be declared as "Critical". For example, High pressure hoses, auto electrical items, safety items etc. should not be declared "Critical" in totality.

8. After finalization of Critical Spares, the OEM/OES/OPM for the subject Critical Spares should also be identified by the lead Subsidiary Company with the approval of their Director (Technical) as per Clause-15.3.3 of Purchase Manual.
9. The approved 'Critical Spares List' is to be circulated to all the Subsidiaries by the Lead Company with copies endorsed to E&E and MM Divisions of CIL.
10. The Critical Spares List has to be reviewed every year by the lead Subsidiary for any modification, or for inclusion of new OPMs or any other changes. The E&E Division at CIL (HQ) shall be informed regarding each review. In case of any change in the list, the revised List is to be circulated to all the Subsidiaries by the Lead Company with copies endorsed to E&E and MM Divisions of CIL.
11. Any issue with the approved Critical Spares List is to be taken up with the lead Subsidiary Company.
12. If any item appears on two or more lists, i.e. if any item is identified as "Critical" for more than one equipment model, then all the corresponding OPMs shall be considered as proven sources for that item.
13. Once the List of Critical Spares is identified, all the other spares should be considered as "non-Critical" and procured from other sources.
14. The Lead Subsidiary Company is also responsible for finalizing the Model NIT for each Category of Item.

| Sl. No. | Model of HEMM | Description of Parts | Part No. | Alternate Part No. if any | SAP Code | Name of OEM / OES / OPM |
|---------|---------------|----------------------|----------|---------------------------|----------|-------------------------|
|         |               |                      |          |                           |          |                         |
|         |               |                      |          |                           |          |                         |

**Lead Company - based on Equipment population**

| Sl.                            | Model          | Capacity | Total Population | Lead Company |
|--------------------------------|----------------|----------|------------------|--------------|
| <b><u>DRAGLINE</u></b>         |                |          |                  |              |
| 1                              | W2000-33CUM    | 33 CuM   | 1                | NCL          |
| 2                              | 7820-50        | 26.5 CuM | 1                | ECL          |
| 3                              | W2000          | 24 CuM   | 16               | NCL          |
| 4                              | 20/90 DRG      | 20 CuM   | 5                | NCL          |
| 5                              | 15/90 ESH      | 15 CuM   | 1                | NCL          |
| 6                              | 10/70 DRG      | 10 CuM   | 3                | NCL          |
| <b><u>ER SHOVEL</u></b>        |                |          |                  |              |
| 1                              | 495 HD         | 42 CuM   | 3                | SECL         |
| 2                              | 7495 HD        | 42 CuM   | 3                | SECL         |
| 3                              | P&H 4100C      | 42 CuM   | 2                | SECL         |
| 4                              | 2300XPA/LR     | 20 CuM   | 5                | ECL          |
| 5                              | 295HD          | 20 CuM   | 3                | NCL          |
| 6                              | EKG 20         | 20 CuM   | 5                | NCL          |
| 7                              | WK-20          | 20 CuM   | 6                | NCL          |
| 8                              | 182 M          | 10 CuM   | 17               | NCL          |
| 9                              | 195 BE         | 10 CuM   | 15               | NCL          |
| 10                             | EKG10.0        | 10 CuM   | 11               | ECL          |
| 11                             | ERS-1001       | 10 CuM   | 4                | MCL          |
| 12                             | P&H 1900AL     | 10 CuM   | 30               | NCL          |
| 13                             | WK 12-C        | 10 CuM   | 2                | CCL          |
| 14                             | EKG5.0         | 5 CuM    | 94               | CCL          |
| <b><u>HYDRAULIC SHOVEL</u></b> |                |          |                  |              |
| 1                              | PC 3000E-6     | 16 CuM   | 4                | SECL         |
| 2                              | PC2000         | 12 CuM   | 18               | NCL          |
| 3                              | EX-1900        | 11 CuM   | 7                | NCL          |
| 4                              | BE1800         | 10.2 CuM | 6                | SECL         |
| 5                              | 6018 ACFS      | 10 CuM   | 2                | CCL          |
| 6                              | RH 90C (E)BH   | 10 CuM   | 1                | SECL         |
| 7                              | BE-1600        | 9.5 CuM  | 2                | NCL          |
| 8                              | EX1200         | 5.6 CuM  | 48               | MCL          |
| 9                              | BE1000         | 5.5 CuM  | 142              | WCL          |
| 10                             | CK300          | 4 CuM    | 103              | CCL          |
| 11                             | EX 700(D)BH    | 4 CuM    | 1                | SECL         |
| 12                             | HITACHI ZX650H | 3.8 CuM  | 15               | NCL          |
| 13                             | ZX-450H        | 3.8 CuM  | 2                | MCL          |
| 14                             | ZX650H BE      | 3.8 CuM  | 11               | CCL          |
| 15                             | BE-700         | 3.5 CuM  | 4                | NCL          |
| 16                             | BE300          | 2.2 CuM  | 24               | SECL         |

| Sl.           | Model             | Capacity | Total Population | Lead Company |
|---------------|-------------------|----------|------------------|--------------|
| 17            | TATA ZAXIS 370LCH | 2.1 CuM  | 3                | MCL          |
| 18            | EX350             | 1.9 CuM  | 11               | ECL          |
| 19            | EX300             | 1.8 CuM  | 2                | BCCL         |
| 20            | BE 200            | 0.9 CuM  | 4                | SECL         |
| <b>DUMPER</b> |                   |          |                  |              |
| 1             | BELAZ-75306       | 240 Te   | 6                | SECL         |
| 2             | CAT 793D          | 240 Te   | 66               | SECL         |
| 3             | BH-205E           | 190 Te   | 9                | NCL          |
| 4             | CAT 789D          | 190 Te   | 102              | NCL          |
| 5             | BELAZ 75137       | 150 Te   | 77               | SECL         |
| 6             | BH150E            | 150 Te   | 8                | SECL         |
| 7             | 120 TE 445E/BH120 | 120 Te   | 24               | ECL          |
| 8             | UR-120T           | 120 Te   | 6                | NCL          |
| 9             | BH 100            | 100 Te   | 315              | SECL         |
| 10            | CAT 777D-100T     | 100 Te   | 146              | NCL          |
| 11            | CAT-777E-100T     | 100 Te   | 149              | NCL          |
| 12            | HD-785-7          | 100 Te   | 115              | NCL          |
| 13            | BH85              | 85 Te    | 73               | NCL          |
| 14            | CAT 777C          | 85 Te    | 2                | NCL          |
| 15            | CAT777D-85T       | 85 Te    | 9                | BCCL         |
| 16            | HD 785-II         | 85 Te    | 1                | CCL          |
| 17            | BH60M             | 60 Te    | 791              | WCL          |
| 18            | CAT773D-60T       | 60 Te    | 7                | BCCL         |
| 19            | CAT773E           | 60 Te    | 378              | SECL         |
| 20            | HD 465-7          | 60 Te    | 78               | CCL          |
| 21            | 210M              | 50 Te    | 9                | MCL          |
| 22            | BH 50M            | 50 Te    | 12               | MCL          |
| 23            | BH50M-1           | 50 Te    | 36               | MCL          |
| 24            | CAT 773B          | 50 Te    | 1                | MCL          |
| 25            | CAT773D-50T       | 50 Te    | 4                | MCL          |
| 26            | BH35              | 35 Te    | 69               | ECL          |
| 27            | CAT35WT           | 35 Te    | 1                | BCCL         |
| 28            | P380              | 35 Te    | 68               | BCCL         |
| <b>DOZER</b>  |                   |          |                  |              |
| 1             | CAT D11T          | 850 HP   | 53               | SECL         |
| 2             | D-475A-5E0        | 850 HP   | 30               | NCL          |
| 3             | CAT 834           | 460 HP   | 31               | CCL          |
| 4             | WD600-3           | 460 HP   | 27               | WCL          |
| 5             | BD355A            | 420 HP   | 462              | NCL          |
| 6             | CAT D9R           | 405 HP   | 1                | CCL          |
| 7             | BD30W-1           | 320 HP   | 4                | MCL          |
| 8             | D155              | 320 HP   | 314              | WCL          |
| 9             | SD32W             | 320 HP   | 25               | MCL          |
| 10            | ZD320-3           | 320 HP   | 8                | MCL          |

| Sl.           | Model      | Capacity | Total Population | Lead Company |
|---------------|------------|----------|------------------|--------------|
| DRILL         |            |          |                  |              |
| 1             | PV 351     | 381 MM   | 7                | SECL         |
| 2             | MD-H       | 311 MM   | 17               | NCL          |
| 3             | RECP-850 E | 311 MM   | 5                | NCL          |
| 4             | 250E       | 250 MM   | 1                | SECL         |
| 5             | IDM70      | 250 MM   | 72               | NCL          |
| 6             | LMP SK60E  | 250 MM   | 1                | SECL         |
| 7             | RE C750    | 250 MM   | 81               | SECL         |
| 8             | 160D       | 160 MM   | 19               | BCCL         |
| 9             | IDM30      | 160 MM   | 194              | CCL          |
| 10            | ITH 10 DRL | 160 MM   | 2                | SECL         |
| 11            | RBH6-100D  | 160 MM   | 4                | BCCL         |
| 12            | REL C650D  | 160 MM   | 164              | CCL          |
| 13            | ROTACOAL   | 160 MM   | 3                | ECL          |
| 14            | ICM260     | 100 MM   | 25               | CCL          |
| SURFACE MINER |            |          |                  |              |
| 1             | KSM 403    | 4000 MM  | 18               | NCL          |
| 2             | KSM-303    | 3000 MM  | 8                | MCL          |
| 3             | PMM-2205   | 4000 MM  | 15               | MCL          |